

### Abstract

A method and means for automating the design of a ducting system for a fluid is proposed. Boundary data identifying boundary conditions of the ducting system, which  
 5 boundary data comprises positional information in a three dimensional installation space and magnitude of partial fluid flow for each of at least one component terminal connection, through which fluid is exchanged with the ducting system, and positional information of at least one main terminal connection, at which the partial fluid flows are converging, is entered into a data processing system. Design data is determined by applying an  
 10 optimization algorithm to the boundary data using the data processing system, which design data comprises an optimum layout of said ducting system and an identification of all required ducting components for building the ducting system, selected from a collection of standard ductwork primitives, and the data processing system communicates the design data to an external recipient.

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